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Product datasheet for RC205317L2V

PI 3 Kinase Class 3 (PIK3C3) (NM_002647) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PI 3 Kinase Class 3 (PIK3C3) (NM_002647) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PI 3 Kinase Class 3
Synonyms:	hVps34; VPS34; Vps34
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002647
ORF Size:	2661 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC205317).`
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_002647.2
RefSeq Size:	3083 bp
RefSeq ORF:	2664 bp
Locus ID:	5289
UniProt ID:	Q8NEB9
Cytogenetics:	18q12.3
Domains:	PI3_PI4_kinase, PI3Ka, PI3K_C2
Protein Families:	Druggable Genome

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Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of autophagy
MW:	101.4 kDa
Gene Summary:	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abcission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity).[UniProtKB/Swiss-Prot Function]